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ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR THE YEAR

1927

PRESENTED TO THE ANNUAL MEETING,

FEBRUARY 13th, 1928.

PRINTED BY ORDER OF THE COUNCIL.

1928.

[Issued May 9th, 1928.]



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YORKSHIRE
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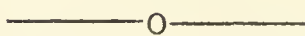
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FORM
OF A
BEQUEST TO THE SOCIETY.



Every person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form :—

*I give and bequeath to the Trustees, for the time being, of the Society established at York, called “**The Yorkshire Philosophical Society,**” for the use of the said Society, the sum of _____ to be paid out of such part of my personal estate as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.*

The Yorkshire Philosophical Society.

(Founded 1822).

Patrons:

HIS MAJESTY THE KING.

HER MAJESTY THE QUEEN.

Trustees:

GEORGE A. AUDEN, M.D.

CHAS. E. ELMHIRST, J.P.

RT. HON. LORD DERAMORE.

EDWIN GRAY, M.A., LL.M., J.P.

President:

William Herbert St. Quintin, D.L., J.P., F.Z.S.

Vice-Presidents:

James Melrose, J.P.

S. Walker, F.E.S.

H. M. Platnauer, B.Sc.

W. A. Evelyn, M.A., M.D.

Frank Green, F.S.A.

(Cantab.)

Edwin Gray, M.A., LL.M., J.P.

Ald. W. H. Birch, J.P.

Chas. E. Elmhirst, J.P.

Col. W. A. White, J.P.

H. J. Wilkinson.

Sydney H. Smith, F.Z.S.

W. Harvey Brook.

Council:

Elected 1926... E. Baker.

G. A. Potter Kirby.

Rev. A. Raine, B.A.

K. E. T. Wilkinson, LL.B., B.A.

Elected 1927... C. J. Bex.

Arthur Hurst, A.K.C.

Frank Terry.

Geoffrey Thompson, M.A.

Elected 1928... J. L. Brockbank, M.A., H.M.I.

John A. Cooper.

Sidney Melmore, B.Sc., F.G.S.

J. Triffitt.

Hon. Treasurer:

S. Walker, F.E.S.

Hon. Secretary:

Chas. E. Elmhirst, J.P.

Committees—

General Purposes and Finance Committee :

J. L. Brockbank.	Rev. A. Raine.
W. Harvey Brook.	Frank Terry.
John A. Cooper.	J. Triffitt.
Dr. W. A. Evelyn.	S. Walker.
A. Hurst.	Chas. E. Elmhirst, <i>Secretary</i> .

Garden Committee :

E. Baker.	Sidney Melmore.
C. J. Bex.	Col. W. A. White.
Arthur Hurst.	S. L. Wyatt.
G. Potter Kirby.	S. Walker, <i>Secretary</i> .

Lecture Committee :

C. J. Bex.	Sydney H. Smith.
J. L. Brockbank.	Frank Terry.
Dr. W. A. Evelyn.	Geoffrey Thompson.
Rev. A. Raine.	K. E. T. Wilkinson.
C. E. Elmhirst, <i>Secretary</i> .	

Museum Committee :

W. Harvey Brook.	Rev. A. Raine.
Dr. W. A. Evelyn.	J. Scott.
Arthur Hurst.	Geoffrey Thompson.
Sidney Melmore.	S. Walker.
W. H. St. Quintin.	H. J. Wilkinson.
Dr. Collinge, <i>Secretary</i> .	

The President, Hon. Secretary, Hon. Treasurer and Keeper
are *ex-officio* members of all Committees.

York and District Field Naturalists' Section.

President :

Arthur Smith.

Vice-Presidents :

H. J. Wilkinson, S. Walker, F.E.S., Sydney H. Smith, F.Z.S.,
W. E. Collinge, D.Sc.

Hon. Secretaries: A. W. Ping, M.A., K. G. Chilman.

REPORT OF THE COUNCIL
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
13TH FEBRUARY, 1928.

THE Council, in presenting their Annual Report for the year 1927, congratulate the members on a very successful year's working.

The repair of the Museum facade has been completed, as also various repairs to the Museum roof, the Observatory, St. Mary's Lodge, and the Bootham property. The weight of the specimens upon the Vestibule floor and the additions to the Library occasioned doubts as to the safety of the floors, and after consulting with the architects, a series of steel joists have been added as additional supports.

Realising the urgent necessity for a further enlargement of the Museum, your Council have opened a Million Shilling Fund in order to carry out this desirable improvement and to replace many of the old cases by modern bronze ones. There has been a very gratifying response, but if progress has to be made the many members who have not as yet contributed must lend a helping hand. Your Council urgently appeals to every member of the Society to help in this work.

Your Council have carefully considered a recommendation from the last Annual Meeting with reference to the advisability of again permitting the election of Associates and Lady Subscribers, and are unanimously of opinion that such a course is inadvisable.

The Keeper attended the Leeds meeting of the British Association as the Society's delegate and has reported upon the proceedings of the Conference of Delegates of Corresponding Societies. He also represented the Society at the Congress of Yorkshire Archæological Societies, held at Leeds, on October 29th.

On January 4th to the 7th, The National Union of Women Teachers held their Annual Conference in the Tempest Anderson Hall.

On September 3rd, some fifty members of the British Association were entertained to tea in the Museum Gardens on the occasion of their visit to York. The members were received by the President and Mr. and Mrs. Richard Thompson, and shown over the ruins, the Yorkshire Museum, Hospitium, etc.

The number of visitors during the year has exceeded all previous records, and totalled over 100,000. There has been continued evidence of deepening interest in the Ruins, Museum and Botanical Garden.

The following is a full list of the Lectures delivered in the Tempest Anderson Hall during the past year.

Thursday, January 13th.—“Abraham Lincoln.” By Rosslyn Mitchell, Esq., M.A., LL.B., M.P.

Thursday, January 27th.—“Mars our Neighbour.” By Dr. Hector Macpherson, M.A., F.R.S.E.

Thursday, February 10th.—“Iceland.” By Capt. Harold G. Mansfield, M.C., F.R.G.S.

Thursday, October 20th.—“Life in the Solomon Islands.” By C. W. Collinson.

Thursday, November 3rd.—“The Early Colonization of Western Europe.” By W. J. Perry, Esq., M.A.

Thursday, November 17th.—“Life with the Australian Aborigines.” By E. L. Grant Watson.

Thursday, December 1st.—“Secrets of Recent Events in China.” By Thomas Bowen Partington.

Thursday, December 15th.—“The Recent Eclipse of the Sun.” By Miss Mary Proctor, F.R.A.S., F.R.Met.Soc.

Two General Monthly Meetings have been held, when the following Communications were laid before the meetings :

February 7th.—“Thomas Magnus, Archideacon of Thest Rydyng.” By Dr. J. S. Gayner.

December 5th.—“The Anglian Glass Vessel from the Mount.” By C. E. N. Bromehead, B.A.

“The Occurrence of *Gladiolus communis* on Strensall Common.” By A. Wentworth Ping, M.A.

“Some Recent Additions to the Yorkshire Museum.” By Dr. Walter E. Collinge, F.S.A.

The Council note with pleasure that the Iris Society have conferred upon one of our Honorary Members (George Yeld, Esq.) the Foster Memorial Plaque.

During the year your Council by a unanimous vote elected as Honorary Members of the Society :—C. Tate Regan, M.A., F.R.S., F.L.S., Director of the British Museum (Natural History), and F. A. Bather, M.A., D.Sc., F.R.S., F.G.S., Keeper of the Department of Geology, British Museum (Natural History), London.

Your Council regret to record the decease of two of the Society's Honorary Members, viz., Alderman Edward Wooler, F.S.A., of Darlington, and Sir Arthur E. Shipley, G.B.E., Sc.D., F.R.S., Master of Christ's College, Cambridge.

FIELD NATURALISTS' SECTION. Regular meetings have been held during the Spring and Autumn, while during the Summer months four Excursions have been successfully carried out. Membership continues at about 80, average attendance at meetings about 20. The Recorders' Reports in the various branches of Natural History show that constant valuable work is being actively carried on by individual members, and in spite of a wet season the reports contain some most interesting records.

The Programme has been as follows :—

Wednesday, January 26th.—Lecture : "Bird Photographs and how to take them." F. Vear.

Wednesday, February 9th.—Botanical Recorder's Report and Lecture : "Plant Life about Robin Hood's Bay." J. H. Evers.

Wednesday, March 9th.—"The Weather of 1926." A. W. Ping, M.A.

Wednesday, March 23rd.—Recorders' Reports on Vertebrates. S. H. Smith and V. G. F. Zimmerman. Lecture : "Some Notes on Birds Nests." E. W. Taylor.

Wednesday, April 6th.—Annual Meeting.

Saturday, May 21st.—Excursion to Skipwith Common to view the nesting habits of the Black-headed Gull.

Saturday, June 11th.—Excursion to Askham Bog in conjunction with the Yorkshire Conchological Society.

Saturday, July 2nd.—Excursion to Allerthorpe Common in conjunction with the Yorkshire Naturalists' Union.

Saturday, September 17th—23rd.—Fungus Foray at Stamford Bridge.

Wednesday, October 12th.—Lecture: "Animal Psychology." C. F. Procter.

Wednesday, October 22nd.—General Exhibit Night.

Wednesday, November 9th.—Lecture: "Cockle-like stones." S. Melmore,
B.Sc.

Wednesday, November 23rd.—Microscopical Evening with Exhibits and
Diagrams of the Mason Bees. Dr. W. E. Collinge.

Wednesday, December 7th.—Recorder's Report on Entomology. Presidential
Address, "Some British Noctuae." A. Smith.

NEW MEMBERS, ELECTED IN 1927.

Balme, Wm., 32, Marygate.
 Beanland, T. E., 3, Burton Stone Lane.
 Claire, Dallé, Spurriergate.
 Ford, The Very Rev. Dr. Lionel, The Deanery.
 Fox, E. W., 4, Lime Avenue, Stockton Lane.
 Gedge, The Rev. H. T. S., M.A., 9, Minster Yard.
 Gray, Donald, M.A., Bootham School.
 Hall, J. W., F.Z.S., 346, Anlaby Road, Hull.
 Hannon, G. B., 8, St. Helen's Square.
 Hardgrave, Miss S. A., 8, Earlsborough Terrace.
 Harding, H. H., 40, Low Petergate.
 Hazell, J., 74, Bishopthorpe Road.
 Herbert, G., 9, Feversham Terrace.
 Hick, Miss L., 39, St. John Street.
 Horner, Miss E., 39, St. John Street.
 Horsey, Mrs. E., 10, Sycamore Terrace.
 Household, H., 52, Marygate,
 Kendall, L. J., 10, Wentworth Road.
 Lund, Mrs., 23, Bootham Crescent,
 Newbald, G. T., 5, Nunthorpe Avenue.
 Nicholson, Miss M. E., Lendal Bridge.
 Potter, Miss G. E., 14, Bootham Crescent.
 Quarrie, G. H., 118, The Mount.
 Robinson, Major F. A., Aldersyde; Dringhouses.
 Rose, R., A.R.C.O., 6, Gillygate.
 Smith, R. T., 138, Micklegate.
 Torbett, Mrs. L., "Wayside," Poppleton Road.
 Usticke, C. S. Nowell-, 1, Lendal.
 Yeadon, C., 12, Coney Street.

DEATHS.

HONORARY MEMBERS.

Shipley, Sir Arthur E., G.B.E., M.A., Sc.D., F.R.S.
 Wooler, Ald. Edward, F.S.A.

MEMBERS.

Hunt, J. H., 26, Aldwark.
 Lund, W., 23, Bootham Crescent.
 Martin, J. O., 8, Earlsborough Terrace.
 Raimes, Dr. Alwyn, Acaster Manor.
 Torbett, Mrs. L., "Wayside," Lavender Grove, Poppleton.

LADY SUBSCRIBERS.

Leaf, Miss M., 18, Park Place.
Teale, Miss J. E., 35, Price Street.

RESIGNATIONS.

Members, 49. Lady Subscribers, 5. Associates, 0.

DEATH AND RESIGNATION.

Members	54
Lady Subscribers	7
	<hr/>
	61

NEW MEMBERS.

29

TOTAL MEMBERSHIP ON 31st DECEMBER,
1927.

Honorary Members	30
Members	428
Lady Subscribers	63
Associates	16
	<hr/>
	537

REPORT OF THE GARDEN COMMITTEE

FOR THE YEAR 1927.

A considerable amount of unseen work has been carried out during the Year, in clearing and re-arranging. New Walks have been laid down around the Observatory.

The alterations around the ruins of St. Leonard's Hospital has necessitated the removal of the drinking fountain and relaying of the area facing Museum Street. This has now been completed, as also various alterations behind the Roman Wall and Multangular Tower.

Further stocks of new bulbs have been purchased, and given a fine summer, the Gardens will be seen at their best.

The continued interest in the Botanical Garden is gratifying, but your Committee would like to see more use made of this collection for educational purposes.

Your Committee would again appeal to all members and their children not to throw paper, etc., about the grounds, but to use the waste paper baskets provided.

LIST OF HONORARY MEMBERS.

1. 1927. Bather, F. A., M.A., D.Sc., F.R.S., F.G.S., Keeper of the Department of Geology, British Museum (Nat. His.), London, S.W.
2. 1926. Benson, George, A.R.I.B.A, Thirsk Road, Easingwold
3. 1897. Berget, Baron A., Sorbonne, Paris
4. 1888. Bobretzki, Dr., The University, Kiev
5. 1906. Bower, F. O., M.A., Sc.D., LL.D., F.R.S., The Crescent, Ripon.
6. 1891. Buckman, S. S., F.G.S., Westfield, Towsey, Thame, Oxon.
7. 1923. Clark, Wm. Eagle, I.S.O., LL.D., F.R.S.E., The Royal Scottish Museum, Edinburgh
8. 1924. Collingwood, R. G., M.A., F.S.A., Haverfield Library, Ashmolean Museum, Oxford
9. 1906. Cornish, Vaughan, D.Sc., Inglewood, Camberley, Surrey.
10. 1898. Crichton-Brown, Sir James, M.D., LL.D., D.Sc., F.R.S., 45, Hans Place, London, S.W. 1
11. 1926. Fox, Cyril, Ph.D., F.S.A., Director of the National Museum of Wales, Cardiff
12. 1920. Grabham, Oxley, M.A., Heron Cottage, Thornton Dale, Yorks.
13. 1923. Harmer, Sir Sydney F., K.B.E., Sc.D., F.R.S., The Old Manor House, Melbourne, near Royston, Herts.
14. 1924. Kendall, Prof. Percy F., M.Sc., F.R.S., F.G.S., Sandhill, Moor Allerton, Leeds
15. 1926. Keith, Sir Arthur, M.D., LL.D., F.R.C.S., F.R.S., Conservator of Museum and Hunterian Professor, Royal College of Surgeons of England, London, W.C.
16. 1924. Keyser, Charles E., M.A., F.S.A., D.L., J.P., Aldermaston Court, near Reading
17. 1891. Leyland, C. J., Haggerston Castle, Northumberland
18. — Lightfoot, Thomas, Masham, Yorks.
19. 1901. Macnamara, W. H., Railway Commission, Courts of Justice, London
20. 1925. Marriott, Sir John A. R., M.A., M.P., 17, Belgrave Square, London
21. 1906. Müller, Sophus, Prindsens Palais, Copenhagen
22. 1889. Pavlow, A. P., Professor of Geology in the University of Moscow, Russia
23. 1926. Pears, C. R., C.B.E., M.A., F.B.A., F.S.A., Chief Inspector of Ancient Monuments, Office of Works, London
24. 1927. Regan, C. Tate, M.A., F.R.S., F.L.S., Director of the British Museum (Nat. Hist.), London, S.W.
25. — Sadler, Sir Michael Ernest, K.C.S.I., C.B., D.Litt., LL.D., Master of University College, Oxford.
26. 1906. Shetelig, Dr. Haakon, Bergens Museum, Bergen, Norway
27. 1924. Smith, Arthur H., M.A., F.S.A., 2, Balfour Road, Weybridge, Surrey
28. — Wager, H. W. T., D.Sc., F.R.S., Headingley, Leeds
29. 1926. Woods, Henry, M.A., F.R.S., Sedgwick Museum, Cambridge
30. 1923. Woodward, Sir A. Smith, LL.D., F.R.S., F.G.S., Hill Place, Hayward's Heath, Sussex
31. 1922. Yeld, George, M.A., Orleton, Gerrards Cross, Bucks.

THE TREASURER'S ACCOUNT IN CONNECTION WITH THE FUND FOUNDED BY THE LATE
WM. REED, ESQ., FOR SPECIFIC PURPOSES.

Dr.	INCOME.		EXPENDITURE.		Cr.
		£ s. d.			£ s. d.
To Balance brought forward ...	...	11 10 9	By New Books ...	...	...
Interest on York Corporation 3% Redeemable Stock, less tax ...	...	...	Excess of Income over Expenditure ...	...	21 2 3
Interest on £50 placed on Deposit with Midland Bank Ltd.	1 5 0	14 8 0		...	6 1 6
		<u>£27 3 9</u>			<u>£27 3 9</u>

BALANCE SHEET.

	£ s. d.		£ s. d.
Amount of Fund on 31st December, 1927 ...	656 1 6	Amount invested in York Corporation 3% Redeemable Stock ...	600 0 0
		Amount placed on Deposit with the Midland Bank Ltd....	50 0 0
		Balance ...	6 1 6
	<u>£656 1 6</u>		<u>£656 1 6</u>

S. WALKER, *Hon. Treasurer.*

Audited and found correct,

FREDK. ABRAHAMS.
January 18th, 1928.

THE TREASURER IN ACCOUNT WITH THE YORKSHIRE

Last Year	Dr.	INCOME.						£	s.	d.	£	s.	d.
	Subscriptions:												
	Members	...	...	...	...	...	...	840	6	0			
	Life Member	...	...	...	...	...	...	20	0	0			
	County Members	...	...	...	...	...	...	5	2	0			
	Lady Subscribers	...	...	...	...	...	...	64	0	0			
	Associates	...	...	...	...	...	...	15	1	0			
	Ticket Holders (less Refunds)	...	...	...	...	...	...	8	5	0			
	Arrears	...	...	...	...	...	...	8	15	0			
	Subscriptions for 1928 paid in advance	...	...	...	...	...	...	12	1	0			
	Keys of Gates	...	...	...	...	...	...	104	15	0			
1141												1078	5 0
	Rents:												
	St. Mary's Lodge	...	...	...	...	...	...	65	0	0			
	Shop, No. 10 Bootham	...	...	...	...	...	...	25	0	0			
	York Waterworks Co.—Shed	...	...	...	...	...	...	15	0	0			
	Do. Light	...	...	...	...	...	...	0	1	0			
	Mr. Hill—Notice Board	...	...	...	...	...	...	0	1	0			
	Corporation of York, Lease of Exhibition Land	...	...	...	...	...	...	2	0	0			
	Post Office—Wayleaves	...	...	...	...	...	...	1	2	0			
	York Diocesan Training College—Boat Yard	...	...	...	...	...	...	5	0	0			
	Baths Cottage, Marygate	...	...	...	...	...	...	20	16	0			
	Shop, No. 12 & 14 Bootham	...	...	...	...	...	...	75	0	0			
102	Letting of Rooms for Lectures and Meetings	...	...	...	...	...	...	101	17	0			
294												310	17 0
2006	The late Dr. Anderson's Bequest (<i>For particulars see p. 16</i>)											1622	2 8
	Interest on £918 8s. 9d. India 3% Stock												
22	(the late Mr. Rawdon's Bequest)											22	1 0
	„ £40 Deposit at Midland Bank	...	...	...	...	...	...					0	14 6
25	Whitsuntide Admission Fees, less expenses	...	...	...	...	...	...					32	1 4
45	Sale of Picture Postcards, Plans, Reports, etc.	...	...	...	...	...	...					85	10 3
	„ Old Material	...	...	...	...	...	...					8	4 0
600	Gate Money	...	...	...	...	...	...					729	2 9
	Grant from Corporation of York towards Meteorological Department											5	0 0
22	Bowling Green Members' Subscriptions	...	...	...	...	...	...					24	0 0
	Donation for holding of Pilgrimage	...	...	...	...	...	...					5	0 0
												3922	18 6
	Excess of Expenditure over Income	...	...	...	...	...	...					238	16 5
												£4161	14 11
	Excess of Expenditure over Income, 1927	...					238	16	5				
	Balance in the hands of Treasurer 31st Dec., 1926						219	2	1				
												£19	14 4

I have audited the Books of the above Society, and from the information and explanations furnished, am of the opinion that the Accounts are in order and correct.

January 18th, 1928.

FREDK. ABRAHAMS.

PHILOSOPHICAL SOCIETY FOR THE YEAR ENDING 31ST DEC., 1927.

Last Year	EXPENDITURE.						Cr.	
							£ s. d.	£ s. d.
	<i>Rent, Rates and Taxes :</i>							
	Crown Rent	...	...	...	...	...	1 0 0	
	Corporation Rent (less tax)	...	...	...	...	...	17 0 0	
	Property Tax and City Rates	...	...	...	...	...	55 7 10	
	Waterworks Company's Rates	...	...	...	...	...	6 12 4	
	Gardeners' License	...	...	...	...	...	3 0 0	
92								83 0 2
	<i>Insurance :</i>							
	Fire Premiums	...	...	...	...	...	18 16 0	
	Employers' Liability Premium	...	...	...	...	...	6 16 8	
	Fidelity Guarantee Premium	...	...	...	...	...	1 10 0	
	National Health and Unemployment Insurance	...	...	...	...	...	25 1 2	
51								52 3 10
14	Telephone Rent and Calls	...	...	...	...	...		16 10 11
	<i>Salaries and Wages :</i>							
	Museums	...	...	...	...	...	1786 10 8	
	Lodge and Gardens	...	...	...	...	...	631 7 2	
	Staff Pensions	...	...	...	...	...	202 0 0	
2561								2619 17 10
	<i>General Additions, Repairs, etc. :</i>							
	MUSEUMS—							
	Additions	...	...	...	...	...	77 14 11	
	Repairs	...	...	...	...	...	23 13 2	
	Ceramic Case	...	...	...	...	...	125 0 0	
	General Expenses	...	...	...	...	...	87 2 7	
312								313 10 8
	GARDENS—							
	General Expenses	...	...	...	...	...	104 16 2	
8	Bowling Green	...	...	...	...	...	32 12 0	
113								137 8 2
	ESTATE—							
	General Repairs, etc.	...	...	...	...	...	76 7 10	
	Museum	...	...	...	...	...	166 16 2	
	Observatory	...	...	...	...	...	46 5 8	
912								289 9 8
1338								740 8 6
	<i>Gas, Coal, Coke, and Electricity :</i>							
135	Coal and Coke	...	...	...	...	...	256 18 2	
12	Gas	...	...	...	...	...	17 1 8	
23	Electricity	...	...	...	...	...	31 9 4	
171								305 9 2
59	Library—Books and Binding	...	...	...	...	...	...	59 13 5
94	Lectures	...	...	...	...	...	...	65 2 0
	<i>Printing and Stationery :</i>							
61	Annual Reports and Proceedings	...	...	...	...	...	48 2 0	
40	General Printing and Stationery	...	...	...	...	...	31 1 8	
102								79 3 8
	Guides to Museums and Gardens	...	...	...	...	...	...	39 0 0
46	Picture Postcards	...	...	...	...	...	...	33 17 4
21	Postages and Receipts	...	...	...	...	...	...	23 0 0
	Cheque Book	...	...	...	...	...	...	1 12 0
	Expenses re Visit of British Association	...	...	...	...	...	...	21 7 1
	Deposit Account (Life Membership)	...	...	...	...	...	...	20 0 0
	Bank Commission	...	...	...	...	...	...	1 9 0
								<u>£4161 14 11</u>
	Balance due to Treasurer, 31st Dec., 1927	...					19 14 4	
							<u>£19 14 4</u>	

S. WALKER, *Hon. Treasurer.*

THE LATE DR. ANDERSON'S BEQUEST.

	£	s.	d.
Interest on £8,000 New Zealand 4 % Inscribed Stock ...	256	0	0
„ on £5,700 London & North Eastern Railway 4 % First Preference Stock ...	182	8	0
„ on £2,500 London & North Eastern Railway 4 % Second Guaranteed Stock ...	80	0	0
„ on £8,000 Canada 4 % Registered Stock ...	256	0	0
„ on £3,219 3s. 5d. Bank of England Stock ...	309	0	10
„ on £5,777 2s. 6d. South Indian Railway 4 % Registered Debenture Stock ...	184	17	4
„ on £4,314 13s. 2d. 5 % War Loan Stock ...	215	14	6
„ on £2,000 3½ % Conversion Loan ...	72	0	0
„ £45 Deposit at Midland Bank ...	1	2	0
Rents of Shops and Dwelling-houses, Nos. 32 and 34 Bootham ...	65	0	0
	<u>£1622</u>	<u>2</u>	<u>8</u>

Memo :—The above items are shown less tax, if deducted.

CENTENARY FUND.

	£	s.	d.
Balance at Midland Bank ...	32	1	11
5 % War Stock ...	328	19	9
	<u>£361</u>	<u>1</u>	<u>8</u>

THE YORKSHIRE MUSEUM,
YORK.

Report
of the
Museum Committee
FOR THE YEAR 1927.

PRINTED BY ORDER OF THE COUNCIL.

1928.

The Yorkshire Museum,

YORK.

Keeper :

WALTER E. COLLINGE, D.Sc., M.Sc., F.S.A., F.L.S.,
M.B.O.U., Hon. F.R.H.S.

Honorary Curators :

ARCHÆOLOGY - - - - { W. HARVEY BROOK.
W.A. EVELYN, M.A., M.D. (Cantab.)

GEOLOGY - - - - - SIDNEY MELMORE, B.Sc., F.G.S.

ROMAN ANTIQUITIES - - Rev. A. RAINE, B.A.

BOTANY - - - - - H. J. WILKINSON.

ZOOLOGY - - - - - { W. H. ST. QUINTIN, F.Z.S.
S. WALKER, F.E.S.

ASTRONOMY - - - - - J. SCOTT.

NUMISMATICS - - - - - GEOFFREY THOMPSON, M.A.

CERAMICS - - - - - A. HURST, A.K.C.

Sub-Curator : W. WATSON.

Assistants : { MISS E. HOLMES.
MISS M. BECKWITH.
FRANCIS T. G. WHITE.

Chief Clerk : ARTHUR COLLEY.

Museum Attendants :

WILLIAM RAFTON and MRS. HORSFALL.

THE YORKSHIRE MUSEUM.

REPORT OF THE MUSEUM COMMITTEE FOR THE YEAR 1927.

THERE have been no special changes in the work of the Museum during 1927, but it compares favourably with the years immediately preceding.

The numerous and valuable additions to the Collections afford pleasing evidences of the continued interest taken in the Museum throughout the County. The principal donation during 1927 was the valuable Library of the late Alderman Edward Wooler, F.S.A., numbering upwards of 1,600 volumes of work relating to the antiquities and archæology of Yorkshire, Roman Archæology, and numerous pamphlets, etc.

In connection with the preparation of a Report on Museums as a Factor in Education, which is to be issued by The Carnegie United Kingdom Trust, Sir Henry Miers, D.Sc., F.R.S., paid a visit to the Museum and inspected the same on May 7th.

As in previous years the Keeper has given numerous short addresses on the different collections, to various parties of visitors; a number of these have been to artizans or children on Saturday afternoons.

The Yorkshire Numismatic Society held its July meeting in the Museum Library, on July 16th.

The Yorkshire Architectural and York Archæological Society continues to hold its meetings and house its Library in the Museum.

The Autumn Course of Lectures of the York University Extension Society was given in the Tempest Anderson Hall.

EDUCATIONAL WORK.—Considerable use has been made by the City Educational authorities of the Museum Collections, and the 1924 scheme continues to work satisfactorily. During March the Rev. A. Raine gave six lectures to York School Children on Roman York, when 2,715 scholars attended from 33 schools.

A record has been established in the number of visitors; amongst the various organizations that have visited the Museum were :—the Leeds Camera Club, on April 23rd; the Sheffield Architectural Society, on April 30th; Liverpool Boy Scouts (500), on May 4th; the Yorkshire District Workers' Educational Association, on June 26th; the International Congress of Actuaries, on July 2nd; the Leeds University Summer School of History, August 3rd—16th; the York Branch of Toc H, on August 4th; Members of the British Association, on September 3rd; the Doncaster Scientific Society, on October 15th.

The Collections or specimens have been studied by Dr. G. G. Simpson, of London; Prof. Henry Woods, M.A., F.R.S., of the Sedgwick Museum, Cambridge; Sidney Melmore, B.Sc., F.G.S., of York; Col. A. Ower; Prof. R. A. S. Macalister, Litt.D., F.S.A., of University College, Dublin; W. T. Arkell, B.A., F.G.S., of the University Museum, Oxford; Prof. F. G. Parsons, F.R.C.S., F.S.A., of London; Dr. Friedrich Moll, of Berlin; Prof. Tancred Borenius, of the University of London; and Charles Clay, M.A., F.S.A., of London.

Many specimens have been loaned to specialists, and a continually increasing number of inquiries have been replied to.

Turning to the different departments of the Museum :—

ETHNOLOGY.—Many acquisitions have been received during the past year, and the whole of the Collections have been cleaned and rearranged.

GEOLOGY.—The revision of the nomenclature of the palæontological specimens has continued. The Keeper desires to place on record the valuable assistance given by Mr. Sidney Melmore, B.Sc., F.G.S. During the year he has prepared a

very valuable catalogue of the type specimens and also of the specimens which have been figured. It is hoped that means will ultimately be found for the publication of this important work.

ROMAN ANTIQUITIES.—During the year 1927, two interesting Roman monuments have been added to our collections. One is a memorial stone to a centurion of the sixth Legion, found in Rawcliffe Lane, and loaned to us by the York Corporation. It is a heavy grit stone containing an inscription. This is the second tombstone of a centurion found in York. The second monument was found in the garden of Miss Moggs, on the Mount, and the Society is indebted to her for the gift of this interesting object. It is a fragment of rough grit stone containing part of a male figure in an arched recess. The head rests on the left hand, and the right hand lies across the body holding a rod or sword. It is almost certainly Roman and belongs to some memorial which stood at the side of the Roman road from Eburacum to Calcaria. No parallel has yet been found for the attitude of this figure. All that can be said is that it may be part of a mourning figure attached to a wayside tomb.

ZOOLOGY.—All the Collections are in good order. During the year a case of Snipe, Jack Snipe, and Pallàs's Sand Grouse have been added to the collection of British Birds, all presented by Mr. W. H. St. Quintin.

BOTANY.—The Specimens of British Flowering Plants and Ferns in the Herbarium are in fair condition. The foreign plants require attention.

ASTRONOMY.—All the instruments are in good condition. The sidereal clock has been cleaned and overhauled during the past year. Various observations have been taken, especially of Jupiter.

The Honorary Curator will be pleased to show the telescope to members on lecture nights when the weather is favourable, or arrangements for other times may be made with the Keeper.

NUMISMATICS.—Progress has been made with the collections since last year, and there now remain to be arranged and labelled the Greek, Roman, British, Anglo-Saxon, and onwards to Edward VI.; also sundry Continental Coins, Abbey Tokens and Medals. The remainder have all been classified and labelled for easy reference, and an exchange of duplicates is now in progress.

Some Tokens of general and Yorkshire interest are shortly to be exhibited in the Main Hall.

During the year the gifts and bequests from York residents and others interested in the Society have been much appreciated, and it might be mentioned that the Society is particularly anxious to complete its series of all coins which are associated with Yorkshire, and especially with York itself. At present these series are by no means complete and comparatively few of the specimens are in really first class condition.

CERAMICS.—The Ceramic Collections have been well maintained during the present year, the cases and specimens in the Central Hall have been cleaned and to some extent rearranged. A considerable number of additional specimens have been added, mostly to these collections. A new case has been added to the Central Hall which has been filled with a fine collection of Rockingham Porcelain.

THE LIBRARY.—The addition of the Wooller Collection has necessitated a rearrangement of a great part of the Library. The 1,600 volumes and numerous pamphlets presented by the late Alderman Edward Wooller have been card catalogued and placed in their various sections. Three new store book-cases have been added for the reception of this important and valuable donation. The Keeper would like to place on record his thanks to Miss E. Holmes for the excellent services she has so willingly rendered in dealing with this collection.

During the year 56 volumes have been added by purchase, and 42 by presentation, in addition to a large series of unbound memoirs.

The number of volumes borrowed was 184.

METEOROLOGY.—*Statistics of Station*: Longitude, $1^{\circ} 5' \text{ W.}$; Latitude, $53^{\circ} 57' \text{ N.}$; height above mean sea level, 56 feet.

The *rainfall* for 1927 was above normal, being 28.68 inches, 4.68 inches above the average for over 50 years. The rain was fairly spread over the year, with the exception of July, August, and September, when the totals for the months were 2.85, 4.27, and 4.56 inches respectively, 19.21 inches falling in the second half-year.

Temperature ranged from 78° F. on July 10th, to 19° F. on December 19th; the range of temperature for 1927 being thus 57° F. as against 68° F. for 1926. A mean pressure of 1112.0 millibars (1000 millibars = 29.531 inches of mercury) at M.S.L., (corrected for diurnal variations), has been recorded, as against 1013.3 millibars for 1926. December gave the lowest mean for the year, 967.5 millibars, March next with 972.9 millibars. May was highest 1018.6 millibars, and February next with 1016.8 millibars. The extreme range was 1.60 inches as compared with 1.57 inches in 1926. The highest reading of the barometer was taken December 28th, at 9 a.m., viz.: 30.67 inches, and the lowest on December 2nd, at 9 p.m., viz.: 28.48 inches.

Snow or Rain fell to the amount 28.68 inches or 728.5 mm., as against 21.75 inches or 552.5 mm., for 1926, an increase of 6.93 inches or 176.5 mm., for the year. The heaviest fall of the year occurred on September 6th, when 37.1 mm. (1.46 inches) fell. The cumulative totals for the years since 1820 are, for the heaviest monthly falls, August 5685.23 mms., October 5506.37 mms., and July 5247.19 mms.

Observations of Winds show that during 1927 we had "strong" winds on 4 days (force 4 to 7 on scale 0-12) 2 days less than 1926, and "calm" on 10 days as compared with 1 in 1926. The chief winds have been observed as S. (96), W. (57), N. (78), S.E. (20), S.W. (43), and N.W. (23).

Thunder was heard on 9 days, snow or sleet fell on 11 days, as against 11 in 1926; and there were hailstorms on 3 days, as against 7 days the previous year.

Bright Sunshire was recorded 1193·1 hours as against 1244·3 hours in 1926, a decrease of 51·2 hours for the year.

The daily mean was 3·27 hours, and the percentage of possible sunshine 27 as against 28 in 1926.

It is urgently requested that any discovery of Archæological interest in the neighbourhood may be brought to the notice of the Keeper of the Museum, or the Honorary Curators, as early as possible.

The Keeper of the Museum will be pleased to give any information in his power, and may be seen daily, Museum engagements permitting.

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1927.

Latitude 53° 57' N., Longitude 1° 5' W. Gravity Correction 0·8 mb. Height above Mean Sea Level 56 ft.

1927.	Mean Pressure corrected to 32° F. and Lat. 45°				Air Temperature.		Humidity.				Mean Amount of Cloud. 0—10.		Cloud Amount, 9 a.m. No. of Observations.					Force.			Wind, No. of Observations, 9 a.m.										
	9 a.m.		9 p.m.		9 a.m. 9 p.m.		Depression of Wet Bulb.		Vapour Pressure.		Percentage.		9 a.m. 9 p.m.		0 1-3 4-6 7-9 10		8 or more		4-7 1-3		Calm		N. N.E. E. S.E. S. S.W. W. N.W.								
	mb.	ins.	mb.	ins.	°	°	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	0	1-3	4-6	7-9	10	8 or more	4-7	1-3	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Jan.	1004.9	1005.1	29.675	29.680	39.2	40.2	1.6	1.8	6.9	7.1	85	84	7.5	4.9	2	4	4	3	18	0	1	30	0	3	1	1	0	15	4	6	1
Feb.	1016.8	1016.0	30.025	30.004	38.2	39.8	1.4	1.3	6.8	7.4	87	88	7.3	5.7	6	0	3	3	16	0	0	27	1	3	0	1	3	11	3	4	2
Mar.	1004.7	1004.9	29.669	29.675	44.0	43.4	2.8	2.6	7.6	7.3	77	79	6.2	5.7	7	4	4	2	14	0	1	30	0	2	2	1	0	15	3	6	2
April	1011.9	1011.7	29.884	29.876	47.1	45.2	4.2	3.0	7.5	7.7	68	76	6.8	5.4	3	3	7	4	13	0	0	30	0	10	0	0	0	1	4	11	4
May	1018.6	1017.9	30.079	30.061	51.8	49.7	4.6	3.5	9.1	9.2	69	75	7.8	7.8	4	0	5	3	19	0	0	31	0	13	4	1	2	5	3	2	1
June	1011.7	1011.5	29.877	29.871	55.2	52.6	5.3	3.2	9.8	10.7	66	79	7.4	6.3	0	3	8	7	12	0	0	30	0	6	1	2	2	5	3	9	2
July	1012.1	1012.5	29.888	29.901	59.9	59.2	3.2	3.0	14.3	14.0	81	82	8.3	6.2	1	3	3	4	20	0	0	31	0	10	3	0	2	9	5	1	1
Aug.	1010.2	1010.0	29.833	29.825	60.0	59.4	2.9	2.3	14.6	14.7	83	86	7.9	7.0	1	2	5	7	16	0	0	29	2	4	0	2	1	10	6	5	1
Sept.	1007.2	1007.1	29.742	29.740	54.5	53.6	3.1	2.1	11.8	12.2	80	86	8.2	6.6	2	3	0	4	21	0	1	27	2	8	1	1	0	6	5	5	2
Oct.	1015.8	1015.4	29.996	29.987	50.0	49.6	2.3	1.7	10.3	10.7	83	87	7.4	5.8	4	3	0	8	16	0	1	26	4	5	0	1	1	6	4	5	5
Nov.	1014.4	1013.8	29.956	29.938	41.3	41.7	1.6	1.4	7.5	8.0	86	88	7.3	5.2	3	4	3	1	19	0	0	30	0	8	0	3	3	8	3	3	2
Dec.	1015.1	1014.8	29.975	29.969	36.2	35.6	1.3	1.4	6.2	6.2	87	86	8.8	7.6	1	1	3	2	24	0	0	30	1	6	8	5	6	5	0	0	0
Totals															34	30	45	48	208	0	4	351	10	78	20	18	20	96	43	57	23
Year Means	1012.0	1011.7	29.883	29.877	48.1	47.5		2.3	9.4	9.6	79	83	7.6	6.2																	

Pressure is expressed in millibars (1000 millibars = 29·531 mercury inches). also in mercury inches.

RIVER HEIGHT RECORDS REGISTERED BY THE AUTOMATIC RECORDER
AT THE GUILDHALL, YORK, 1927.

Date.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.
1	noon	above 2	1 a.m.	above 3	12 p.m.	above 5	1 a.m.	above 2	noon	above 2	noon	above 1
2	"	2	"	3	6 a.m.	6	"	2	1 a.m.	2	"	1
3	"	2	"	2	11 p.m.	5	noon	2	noon	2	"	1
4	"	2	12 p.m.	3	1 a.m.	5	6 a.m.	2	"	2	1 a.m.	1
5	"	2	2 a.m.	3	"	3	12 p.m.	2	12 p.m.	3	noon	1
6	"	2	1 a.m.	3	11 a.m.	3	6 a.m.	3	1 a.m.	3	"	1
7	"	2	"	2	<i>Recorder out of order</i>	9	1 a.m.	3	"	3	12 p.m.	1
8	"	2	"	2	1 a.m.	3	noon	3	noon	2	noon	1
9	"	2	"	2	1 a.m.	3	"	2	1 a.m.	2	"	1
10	"	2	"	2	"	2	"	2	"	2	"	1
11	"	2	"	2	"	2	6 p.m.	3	noon	2	"	1
12	"	2	"	2	"	2	1 a.m.	3	"	2	"	1
13	12 p.m.	3	noon	2	noon	2	"	3	"	2	"	1
14	4 a.m.	3	"	1	1 a.m.	2	"	2	"	2	"	1
15	1 a.m.	3	noon	1	noon	2	noon	2	1 a.m.	2	"	1
16	"	2	"	1	"	2	"	2	noon	2	"	1
17	noon	2	"	1	"	2	1 a.m.	2	"	2	"	1
18	"	2	"	1	"	2	"	2	"	2	"	1
19	"	2	"	1	"	2	12 p.m.	2	"	2	"	1
20	"	2	"	1	"	2	noon	2	"	2	"	1
21	"	2	"	1	"	2	"	2	"	2	"	1
22	"	2	"	1	"	2	"	2	"	2	"	1
23	"	2	"	1	"	2	"	2	"	2	"	1
24	1 a.m.	2	"	1	"	2	"	2	"	2	"	1
25	12 p.m.	5	"	1	12 p.m.	2	1 a.m.	2	1 a.m.	2	1 a.m.	1
26	8 a.m.	6	"	2	4 p.m.	4	"	2	noon	2	"	1
27	12 p.m.	4	"	2	1 a.m.	4	12 p.m.	2	"	1	6 p.m.	2
28	1 p.m.	4	"	2	noon	3	noon	2	"	1	noon	2
29	1 a.m.	4	"	2	1 a.m.	3	"	2	"	1	"	2
30	10 a.m.	4	"	2	"	3	"	2	"	1	"	2
31	1 a.m.	3	"	2	"	2	1 a.m.	2	"	1	"	2

RIVER HEIGHT RECORDS.

Date.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.
1	noon	above 2	1 a.m.	above 2	noon	above 2	1 a.m.	above 3	1 a.m.	above 4	noon	above 2
2	"	2	noon	2	"	2	3 p.m.	4	12 p.m.	5	"	2
3	"	2	1 a.m.	2	"	2	noon	4	"	8	"	2
4	1 a.m.	2	noon	2	"	2	1 a.m.	3	8 p.m.	10	"	2
5	12 p.m.	2	"	2	"	2	"	3	1 a.m.	10	"	2
6	2 p.m.	4	"	1	"	1	"	3	"	6	"	2
7	12 p.m.	4	12 p.m.	2	"	3	"	2	"	5	"	2
8	11 p.m.	9	1 a.m.	2	"	3	noon	2	"	3	"	2
9	1 a.m.	9	8 p.m.	8	"	9	"	2	11 a.m.	1	"	2
10	"	5	1 a.m.	8	} Recorder out of order	"	"	1	noon	1	1 a.m.	2
11	"	3	12 p.m.	5		} out of order	"	"	1	"	5	Recorder out of order
12	"	3	2 a.m.	5	below 0		1 a.m.	3	"	5	noon	0
13	"	2	1 a.m.	3	above 0	12 p.m.	3	"	5	"	0	
14	noon	2	"	3	0	"	3	"	5	"	0	
15	"	2	12 p.m.	3	2	3 p.m.	3	"	5	"	1	
16	1 a.m.	2	3 p.m.	5	1	1 a.m.	above 0	1	5	12 p.m.	1	
17	"	2	2 a.m.	4	8	12 p.m.	below 0	1	5	noon	1	
18	"	2	1 a.m.	3	1	"	S.L.	1	5	1 p.m.	1	
19	noon	2	12 p.m.	7	5	"	above 0	1	5	"	1	
20	1 a.m.	2	2 p.m.	7	6	"	above 0	1	5	"	0	
21	noon	2	12 p.m.	7	9	"	0	6	11	noon	0	
22	"	2	1 a.m.	5	9	"	0	7	3	12 p.m.	0	
23	"	2	3 p.m.	5	7	"	1	3	5	"	4	
24	"	2	1 a.m.	8	8	"	6	7	3	"	8	
25	1 a.m.	1	"	7	2	"	6	4	7	noon	9	
26	noon	1	"	5	5	"	4	0	7	1 a.m.	8	
27	"	4	"	3	8	"	7	3	5	"	7	
28	1 a.m.	3	"	3	3	"	9	0	2	"	4	
29	noon	2	"	3	2	"	9	3	2	"	3	
30	1 a.m.	2	10 a.m.	4	11	"	6 a.m.	8	2	"	1	
31	"	2	1 a.m.	4	9	"	2 p.m.	9	2	"	1	
		8	"	3	10	"	3 p.m.	6	7	"	1	

THE YORKSHIRE MUSEUM, 1927.

RAINFALL IN 1927

AT CHERRY HILL, YORK.

Rain Gauge : Dia. of Funnel, 5 in. ;
Height Above Ground, 1ft. 6in.
" Above Sea Level, about 50ft.

BRIGHT SUNSHINE.		Pressure at Mean Sea Level			
Month	Daily Mean.		Absolute.		
	1927	Per- centage. 1927 1926	Highest.	Date.	Lowest.
	Hours.	%	mb.		mb.
Jan.	0·70	9	1028·4	10th, 9 p.m. { 8th, 9 a.m.	29th, 9 a.m.
Feb.	1·87	19	1035·9	8th, 9 p.m. 9th, 9 a.m.	28th, 9 p.m.
Mar.	3·28	28	1028·1	16th, 9 a.m.	25th, 9 p.m.
Apr.	5·46	39	1026·7	12th, 9 a.m.	25th, 9 a.m.
May	4·76	30	1033·5	11th, 9 a.m.	16th, 9 a.m.
June	6·33	37	1025·4	15th, 9 a.m.	25th, 9 p.m.
July	4·37	26	1025·7	15th, 9 p.m.	27th, 9 p.m.
Aug.	4·06	27	1028·8	30th, 9 a.m.	22nd, 9 a.m.
Sept.	3·39	27	1026·1	3rd, 9 a.m.	23rd, 9 p.m.
Oct.	2·54	24	1033·5	9th, 9 a.m.	22nd, 9 p.m.
Nov.	1·81	21	1033·2	30th, 9 a.m.	6th, 9 a.m.
Dec.	0·65	9	1041·6	28th, 9 a.m.	22nd, 9 p.m.
Year.	3·27	27	1041·6	Dec. 28th, 9 a.m.	967·5 Dec. 22nd, 9 p.m.

Month	Inches	Wet Days	Greatest Fall	Date
Jan.	1·67	17	·33	28
Feb.	1·37	10	·26	7
Mar.	1·38	16	·36	24 & 25
April	1·86	12	·80	9 & 10
May	1 26	6	·30	4
June	2·91	16	·55	16
July	3·83	12	1·15	27
Aug.	4·17	17	·97	8
Sept.	4·59	14	1·20	6
Oct.	1·58	12	·42	21
Nov.	2·38	19	·42	2
Dec.	2·62	14	·74	21
Totals	29·62	165		

ADDITIONS TO THE MUSEUM

DURING 1927.

A. G. ANGELL.—Early Victorian Parasol with Ivory Handle.

G. K. BEAULAH.—Impressed Tile from Meaux Abbey.

THOMAS BOURKE.—Daguerreotype photograph taken about 1845.

E. BRITTEN.—Mounted specimen of *Cirsium oleraceum*, Scop.

The Rev. A. B. BROWNE.—Fragments of Roman Pottery from Templeborough.

HUMPHREY B. BROWNE.—Stone Celt and Flint Javelin from Broamhead, Milton, West Ontario.

J. L. BURDEKIN.—Framed Views of the Minster and Old York.

G. B. BURTON.—Stone Celt from Crayke.

J. J. BURTON.—Fossil Plants.

MISS CATTLE.—Battledore and Rolling Pin; Knitting Sheath and Papier Maché Measure; Horn Drinking Cup; Iron Door Porter, with Masonic signs on.

R. H. CHAPMAN.—Chinese Chop Dollar; Specimen of Cropton Ware.

WM. CLAYTON.—One plain and 1 coloured Print of Old Ouse Bridge.

CECIL H. COBB, M.A.—Pair of Scales and 5 Weights, made by J. & O. Westwood, Birmingham; Portfolio of Electioneering Addresses, etc.

J. W. DAVIS.—Mediæval Metal Spoon, found at Fulford.

R. G. DEWES.—Stone Axe, ploughed up at Marton-cum-Grafton.

— FABIAN.—Eleven Fossils from the Chalk workings at Middleton-on-the-Wolds.

J. E. GIBBS.—Specimen of Nightjar.

DR. WILFRID GOSTLING.—Two Bottles, 18th century; 1 Percolator.

JAMES GRAY.—Early British Charm ploughed up in a field near Cropton.

S. M. HOLLYWOOD.—Curious Flint.

G. HOWARD.—Mediæval Tiles.

A. HURST, A.K.C.—Guard's Clock, made by Barber & North, York.

- MISS M. J. JEFFERSON.—Framed Pencil Sketch of Wm. Etty.
- F. W. KILVINGTON.—Old Iron Door Knocker from a house in Stonegate.
- J. W. KNOWLES.—Nine Bronze Tokens.
- A. W. LINFOOT.—Leaden Hook from Acomb Bog; Old Oval Copper Frying Pan; Wig Powderer; Old Iron Comb, mounted on Bone Handle.
- A. LINSLEY.—Early English Silver Coin.
- W. M. MARSHALL.—Roman Bone Pin; Tobacco Pipe, marked "G.W."; two small Pots and Bones found in Coppergate; Handle of Mediæval Jug found in Tenant Street.
- H. C. MARSTON.—Print of New Ouse Bridge, 1823; Miscellaneous Minerals and Shells.
- A. J. MEYNELL.—Stone Hammer found at Raskelf.
- MISS E. E. MOGGS.—Roman Memorial Stone.
- J. W. MORLEY.—Nine Hand-wrought Nails.
- R. PEXTON.—Six Mediæval Tiles.
- DR. H. A. PHILLIPS.—Iron Bell from one of the York Priors; Piece of Early 17th Century Pottery found in the Moat, Lord Mayor's Walk, York.
- COL. T. W. PRAGNELL.—Roman Cinerary Urn and parts of three others; Fragments of Roman Pottery, 1 Rhenish and 1 Castor Vase; 2 Bone Needles and 3 Bone Pins, from the Avenue, Clifton.
- ANDREW PRIDE.—Male and Female specimens of *Lepidosiren paradoxa*.
- MRS. RAFTON.—Pinking Iron and Leaden Plate; Pair of Early Victorian Ear-rings.
- The Rev. A. RAINE, B.A.—Curious Plans of York and Hull, 1661.
- W. H. ST. QUINTIN, D.L., J.P.—A Swift Binocular Microscope, with movable Substage Condenser, Double Nose-piece, 1 Compensating Eye-piece, 5 Eye-pieces, 1/12th Oil Immersion Lens, and a 5", 3", 2", 2/3rd, 1/6th and 4/10th Objectives, and Illuminating Lens; Stoat in Winter Dress; Red Grouse; Two varieties of the Red Grouse; 2 Eggs of the Waxwing; Specimen of *Australium rugosum*; Pair of Pallas's Sand Grouse (Male shot at Etton, Beverley, 19/v/1888; Female shot at Market Weighton, 12/vi/1888).
- S. SCRUTON.—Small Pewter Measure (Wm. & M.).

SYDNEY H. SMITH, F.Z.S. Old Iron Pick; Immature Female Black-throated Diver, shot at Tollerton.

MRS. TUXFORD.—Coral (*Fungia* sp.).

S. WALKER, F.E.S.—Commemorative Medal, 1823; Old Spirit Jar.

MESDAMES WALKER.—Two old Silversmiths' Anvils; Two old Silversmiths' Hammers; Two Peruvian Vases.

MISS WARNEFORD.—Honey Jar.

H. J. WATSON.—Roman Fluted Cinerary Urn from Crowland, Lincs.

OWEN WHEELER.—Two Silver and 15 Bronze Roman Coins.

K. E. T. WILKINSON, LL.B., B.A.—Twenty drawer Mahogany Entomological Cabinet.

ALD. EDWARD WOOLER.—Replica of Roman Silver Spoon found at Benwell, 1926.

CORPORATION OF YORK.—Two Plate Warmers removed from the Mansion House.

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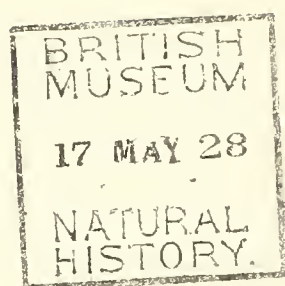
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PROCEEDINGS
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY.

PAPERS

RELATING TO THE

Antiquities and Natural History of Yorkshire, etc.,

READ AT THE MONTHLY MEETINGS OF THE SOCIETY

DURING 1927.

PRINTED BY ORDER OF THE COUNCIL.

1928.

PROCEEDINGS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
1927.

FEBRUARY 7TH.—Col. W. A. White occupied the chair.

The Keeper read the minutes of the previous meeting, and announced the Donations to the Museum and Library.

The following Communication was then read:—

THOMAS MAGNUS,
ARCHIDEACON OF THEST RYDYNG.

BY J. S. GAYNER.

To the brass-rubbers of Norfolk or Kent, the brasses in Yorkshire are but a poor set, and worthy of little attention. Our relative poverty, in fact, in the matter of monumental brasses only illustrates a feature so often and so clearly stated by Cobbett, that until the industrial revival of the 19th Century, the North was but a poor country compared with either the South or East of England. “From Oldham in Lancashire to Newcastle-upon-Tyne, is about a hundred and fifty miles; and, leaving out the *great* towns I did not see so many Churches as are to be seen in any twenty miles of the valleys of Wiltshire.” “From Cheshire to Newcastle I have never seen one single labourer’s cottage by the side of the road. Oh Lord! If the good people of this country could but see the endless strings of vine-covered cottages and flower gardens of the labourers of Kent, Sussex, Surrey and Hampshire.” (September, 1832).

But our monumental brasses, though small in size and number compared with those of the great industrial districts

of mediæval England, have for us both interest and charm. Even the poor half dozen still remaining in the City of York: for they reveal the existence of a fine local school of whose work we have examples dated from 1595 to 1642. And the figures in armour at Aughton, Sprotbrough, and Leeds (St. Peter's), also afford evidence both of the existence of a local school of brass engravers, and of the artistic influence of Europe north of the Rhine on England north of the Trent.

But it is rather with three or four brasses of ecclesiastics than with those of civilians or men in armour that I am concerned this afternoon.

The mutilated brass of William Grenefeld in the Minster, is the earliest extant brass of an English Archbishop, and the only one remaining to-day in the Archbishop's Cathedral.

The figure at Wensley, which is believed to be that of Sir Simon de Wenslagh, and to date from about 1360, is without question the most magnificent effigy extant of a parish priest habited in Eucharistic vestments. Note the rich detail of the amice, of the apparels of the alb, the stole, the chasuble, enriched with a pall-shaped orphrey, and the maniple.

The figure of Richard Tongé, Rector of Beeford, in the East Riding, 1472, vested in amice, alb, and richly diapered cope.

But for us meeting so close to St. Leonard's Hospital, there is perhaps no monumental brass in the county more interesting than that of Thomas Magnus, Archideacon of Thest Rydyng. Though our President can boast the possession of a series of magnificent monumental brasses to his ancestors: these are in the Churches at Harpham and Brandesburton.

To return to Thomas Magnus. He is a picturesque figure, alike in history and in his effigy; though it must be feared that his brass was engraved on bits of metal stolen from looted Churches, perhaps in the Netherlands; and although Thomas Magnus was a great Church dignitary, one must say of him "his religious opinions were at the service of the King." An eminent civil servant, in the days when the higher branches of this service were recruited solely from the clergy, and when

State and Crown were so far synonymous that Henry obtained power from Parliament to bequeath the Crown of England by Will.

We must give up the picturesque story that we owe to Anthony À Wood that Thomas Magnus was a foundling and owed his name to the fact that a group of charitable farmers agreed "Us'll bring un up among us." He was born at Newark-upon-Trent, and was the son of John and Alice Magnus. In 1504 he was appointed Archdeacon of the East Riding, and was constantly employed in the service of the State as Ambassador to Scotland, or Director of the Council of the young Duke of Richmond while at Sheriff Hutton. This youth was the illegitimate child of Henry VIII. and Elizabeth Blunt. Hall the Chronicleer writes of the boy as "a goodly manne childe of beautie like to the father and mother." And it was probably with this boy in his mind that Henry obtained power from Parliament to dispose of the English Crown by Will. The boy, however, died young. Thomas Magnus attended Henry as Chaplain at the Field of the Cloth of Gold in 1520. Before the Battle of Flodden he was employed in conveying money to the army, and for the rest of his life was employed in Border affairs. In 1523 he is spoken of as "Treasurer of Wars in the North," and of course obtained much Church preferment, with exemption from the duties of his benefices, among them the Mastership of the Chapel of St. Mary, near York Cathedral. And on the 11th of December, 1529, he became Master of the Hospital of St. Leonard, at York. But it was more of a receivership for the Crown than the headship of a religious foundation.

The Dissolution of the Monasteries was a very gradual process. It was Wolsey who showed the way when in 1523 he obtained Bulls from the Pope to suppress forty of the smaller monasteries, and apply their revenues to his colleges in Oxford and Ipswich. The Act for dissolving the smaller monasteries was passed in 1536, and that against the larger in 1539, granting their revenues to the King.

Thomas Magnus appointed to St. Leonard's, in December 1529, surrendered the Hospital in 1539. The surrender is dated in their Chapter House the first of December in the thirty-first year of the reign of King Henry VIII. The Master and Brethren, coming before Richard Layton and Thomas Leigh, two Clerks of the King's Chancery, in the Chapter House belonging to the Hospital of St. Leonard, and there acknowledged the instrument of surrender, and all and singular in it contained to be just. The annual value was returned as three hundred and sixty-two pounds, eleven shillings, one penny-halfpenny. This cannot have included the thraves:—"those twenty sheaves of corn for every carucate of land in the northern diocese. Here we must curb our imagination. Disregard our knowledge of the cornfields of the Wolds and Holderness: of that great belt of cornland which runs from Boroughbridge to Pierce Bridge and on to Darlington and the coast of Durham and Northumberland, and remember that less than a hundred years ago that acute observer, William Cobbett, could write: "There is not as much corn grown in the North Riding of Yorkshire which begins at Ripon, and in the whole County of Durham, as is grown in the Isle of Wight alone..... Here.....agriculture is a sort of novelty."

The brass of Thomas Magnus in Sessay Church is now fixed (it was loose when I rubbed it). It depicts Thomas Magnus in cassock, surplice, almice, and cope: a late example of the use of processional vestments, 1550. The hood is seen on the shoulders.

Information as to Magnus is readily obtained from the usual reference books:—the D.N.B., the Journal of the Yorkshire Archæological Society, and above all, in the domestic papers of Henry VIII.'s reign, published in the Rolls Series and easily accessible to us in the Library of York Minster.

DECEMBER 5TH.—Mr. H. J. Wilkinson occupied the chair.

The Keeper read the minutes of the previous meeting, and announced the Donations to the Museum and Library.

The following Communications were then read :—

ON AN ANGLIAN GLASS VESSEL IN THE YORKSHIRE MUSEUM.

By C. E. N. BROMEHEAD, B.A.

The Glass vessel which is the subject of, or perhaps more accurately the excuse for this short note was found on the Mount, York, in 1807. In the second volume of the Victoria County History, it has been figured in colours and is described as follows :—“probably from an unburnt burial of the 6th Century when such glass was freely manufactured, though its exact place of origin is at present unknown. The York example is however of unusual form and has a diameter of $5\frac{1}{2}$ inches; having a flattened base it is able to stand, unlike the ‘tumblers’ usually found in graves.”



A cup of somewhat similar form from Alfriston, Sussex, is figured by Powell *

* “Glass-Making in England,” *Cambridge Press*, 1923.

It may be worth while to discuss the question of the place of origin, briefly dismissed in the above as unknown. Glass vessels—beads of glass are in a quite separate category—are quite rare in graves of the Anglian period in Yorkshire, and for that reason alone local manufacture may be ruled out, but we have also two written statements to help us. Bede tells us that at the end of the 7th Century glass-workers were brought over from Gaul and taught the natives “not only the making of glass for windows but also for the lamps in use in the Church and for vessels for other various and not ignoble uses.” Clearly the art was then unknown, and apparently it remained so despite the teachers imported by S. Benedict Biscop in 675; for about eighty years later, Cuthbert, Abbot of Wearmouth, wrote to the Bishop of Mayence, “if there be any man in your diocese who can make vessels of glass well, I pray you send him to me.....for we are ignorant and helpless in that art.” As we shall see, he had good reason for sending his request to that part of the Rhine Valley.

By far the greater number of the 6th and 7th Century glass vessels found in England come from Kent, more particularly from the Faversham neighbourhood, but they are also known at numerous localities in the Thames Valley, nearly all close to the river,† and Cambridgeshire, Hampshire, Northamptonshire, Suffolk and Sussex. It is noticeable that almost every find, including our own has been within easy reach of water transport.

Several authorities have suggested that some of this Anglo-Saxon glass may have been made in Kent, the art surviving from Roman times. Alexander Nesbitt, who wrote the Handbook and the introduction to the Catalogue of Glass Vessels in the Victoria and Albert Museum, quotes Roach Smith's opinion that a greater number and more varieties have been found in England than in France and Germany, and he remarks that this “certainly gives some ground for the reasonable supposition” that they may have been made here.

† See for instance Victoria County History, Berkshire.

The close parallel between such Yorkshire finds as that of Uncleby with Kent and the connection of the counties through Paulinus, of which we have lately been reminded, makes the suggestion attractive. It is however very doubtful whether Roach Smith's premise will stand.

Powell, who has the advantage of being a practical glass-maker, says in his *History of Glass Making in England* that some of the simpler bowl-shaped cups may have been of local manufacture.

The most noteworthy glasses of the period are the famous "prunted tumblers." These are conical cups, 8 to 12 inches in height, ornamented with bands of elongated drooping lobes applied to the exterior; these are sometimes themselves decorated by strips of pinched glass, while the unoccupied parts of the cup may be spirally stringed. They are known from Kent (Faversham, Reculver, etc.), Taplow and Fairford in the Thames Valley, Winchester, Cambridge, Northampton and Castle Eden in Durham. This highly characteristic form seems to have evolved from a Roman type: a similarly lobed though less elongated vase of late Roman date in the Museum of St. Germain is figured by Powell, and others from Thera and Cyzicus are in the British Museum. A 5th or 6th Century vase, shaped like a modern tumbler and decorated with numerous bands of short tear-like lobes found at Montreuil, and formerly in Sir John Evans' collection, serves as a connecting link. This form is found abundantly in northern France and Germany in the Meuse and Rhine districts, where Roman technique may have survived, and it is almost certain that we must place the manufacture here, a conclusion reached by nearly every authority I have consulted.

A woodcut given by Gerspach in his *L'Art de la Verrerie* is instructive; it shows two pairs of closely matched glasses from Reculver and Selzen, Germany, and from Fairford and the valley of the Eaulne, France side by side. It is noticeable that examples of this peculiar form have been found as far afield as Illyria; the distribution, both on the Continent and in

England, where the constant proximity to navigable rivers has been mentioned, undoubtedly points to the Meuse or the Ardennes as a centre.

Here every form of glass vessel found in the Anglian and Saxon graves in England can be matched, including our own. I have two somewhat similar vessels of the Merovingian period, formerly in the Evans' Collection, found in the Somme Valley. Moreover we have a certain amount of documentary evidence for the existence of glass-works in France and Germany. In A.D. 506, Ruricius, Bishop of Limoges, mentions a "vitrarius" and about 100 years later Fortunatus of Poitiers in describing a grand banquet says that birds were served in dishes of glass, while we have already seen that Cuthbert of Wearmouth wrote to Mayence for a maker of glass vessels.

A general survey of the origins of Saxon Art would be out of place here, but would undoubtedly confirm what has been said as to the place of origin of the glass. The pottery and the jewellery show close parallels between England and the Northern part of France and Germany, though the latter has been traced through France to the opposite corner of Europe. Such remarkable rarities as the bucket from Long Wittenham, Berkshire, with bronze plates embossed with scenes from Gospel History, and the ewer from Wheathamstead can be matched in the Valleys of the Somme and the Rhine.

I conclude that the glass vessel from the Mount was imported from the Meuse-Rhine district, and would suggest that these shallow bowls are probably the Church lamps alluded to by Bede, though of course they may have been used for similar or quite other uses in pagan times.

ON THE OCCURRENCE OF *GLADIOLUS COMMUNIS* AT STRENSALL COMMON.

BY A. WENTWORTH PING, M.A.

The casual occurrence of an uncommon wild flower in any given locality is always of interest to botanists, and frequently gives rise to considerable speculation as to its origin. In these

days there is a fear that some enthusiast may have endeavoured to establish a particular species in some favourite secluded spot, and if this has been done privately, the unsuspecting botanist who "discovers" a rare plant new to his district, may well be forgiven if he passes a few remarks on misplaced enthusiasm.

However, I wish to lay the facts before you concerning the occurrence of *Gladiolus communis* in the neighbourhood of Strensall Common.

It was on July 16th, 1927, that I conducted a small party of boys on a botanical ramble, in the course of which we skirted the southern edge of the Common. One of the boys, Allan J. Darton, drew my attention to a plant he had noticed, and there amid the thick wayside vegetation of a by-road bordering the Common, with its spike of crimson bloom standing high above the surrounding grasses, was a single specimen of *Gladiolus communis*. At the moment of discovery one flower only was fully opened, but in the course of two days, during which the specimen was kept in water, two other buds opened, and developed perfect flowers. The stem was nearly three feet in length : we left the root undisturbed.

I submitted the plant for inspection in the first place to Mr. H. J. Wilkinson, our Recorder of Botany, who at once confirmed my identification of the plant as *Gladiolus*. I then sent the plant still fresh and unpressed to Dr. G. C. Druce, of Oxford, who definitely confirmed it as *Gladiolus communis* and wrote to me as follows :—

"I made out the *Gladiolus* to be *communis*, but for confirmation I sent it to another authority who confirms my view. This tends to suggest the plant is of casual origin and not native. It differs from *illyricus* by its longer splashes."

On the table here for your inspection, I have :—

- (a) The original specimen dried and pressed.
- (b) Two photographs of the fresh plant.
- (c) A coloured drawing made before the plant was sent to Dr. Druce.

The genus *Gladiolus* is represented in Europe by only a few species. In describing *Gladiolus communis*, Bentham and Hooker say that it is found on the continent no nearer to us than the region of Loire and the Rhine. But in Britain a *Gladiolus* has been found in the New Forest near Lyndhurst which is referable to one of the continental varieties of *Gladiolus communis* called *Gladiolus illyricus*. This plant has also been found in the Isle of Wight. Another species of *Gladiolus* which is a fairly common cornfield weed on the continent is *Gladiolus segetum*, the cornflag.

In the Flora de France of Coste, *Gladiolus communis* is described as growing on "uncultivated ground, rarely on cultivated," and this description fits in with the situation of the Strensall specimen.

One might indulge in various hypotheses as to the origin of this plant on Strensall Common. Although the Common has been the home of many of our rarer plants, some of which are unfortunately no longer to be found there, it would seem hardly possible for even isolated specimens to have escaped the notice of the many botanists who have worked on the Common.

Could the plant have been introduced by birds? Has a seed or a corm been brought in army fodder, or amongst the impedimenta of the troops at the Camp? Or has it been deliberately introduced? I am inclined to reject the idea of its being any form of a garden escape. It remains to be seen whether any further specimens will be found another year.

Dr. W. E. Collinge exhibited some recent additions to the Museum and remarked how the Museum was daily becoming enriched with bronze, stone, and flint objects illustrating the social and economic development of the people of England, and particularly of Yorkshire, from the earliest times to that of the Roman Conquest.





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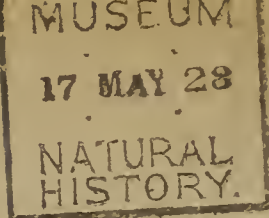




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WALTER E. COLLINGE,
Keeper of the Museum.

MAY, 1928.

